

NEW



EAN code  
PTRA-216T/UNI: 8595188175609  
PTRA-216K/UNI: 8595188175993

Technical parameters	PTRA-216T	PTRA-216K
<b>Power supply</b>		
Power pins:	2, 10	
Voltage range:	AC/DC 12 – 240V (AC 50/60Hz)	
Power input (max.):	2.5 VA/1.5 W	
Supply voltage tolerance:	±10 %	
Supply indication:	green LED	
<b>Time circuit</b>		
Number of functions:	10	
Time ranges:	50 ms - 30 days	
Time setting:	rotary switch and potentiometer	
Time deviation*:	5 % - mechanical setting	
Repeat accuracy:	0.2 % - set value stability	
Temperature coefficient:	0.01 %/°C, at = 20 °C (0.01 %/°F, at = 68 °F)	
<b>Output</b>		
Number of contacts	2x changeover/SPDT (AgNi)	
Current rating:	16 A/AC1	
Breaking capacity:	4000 VA/AC1, 384 W/DC	
Switching voltage:	250V AC/24V DC	
Max. power dissipation:	2.4 W	
Output indication:	multifunction red LED	
Mechanical life:	10 000 000 operations	
Electrical life (AC1):	50 000 operations	
<b>Control</b>		
Control pins:	5 - 2, 6 - 2, 7 - 2	
Impulse length:	min. 25 ms/max. unlimited	
Reset time:	max. 150 ms	
<b>Other information</b>		
Operating temperature:	-20 °C to +55 °C (-4 °F to 131 °F)	
Storage temperature:	-30 °C to +70 °C (-22 °F to 158 °F)	
Dielectrical strength:		
supply - output 1 (1, 3, 4)	2.5 kV AC	
supply - output 2 (8, 9, 11)	2.5 kV AC	
output 1 - output 2	2.5 kV AC	
Operating position:	any	
Mounting:	11 pin octal socket	
Protection degree:	IP40 from front panel	
Overvoltage category:		
for supply voltage 12-150V AC/DC	III.	
for supply voltage 150-240V AC/DC	II.	
Pollution degree:	2	
Dimensions:	48x48x79mm (1.7x1.7x3.1inch)	48x48x89mm (1.7x1.7x3.5inch)
Weight:	111 g (3.9 oz)	108 g (3.81 oz)
Standards:	EN 61812-1	

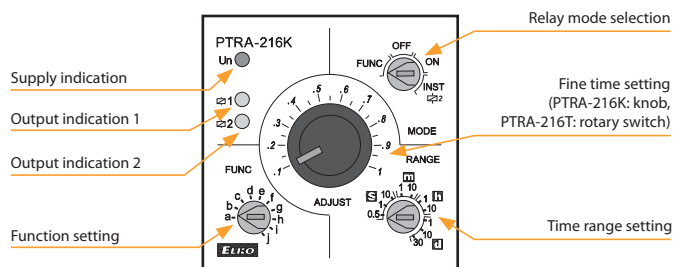
\* for adjustable delay <100 ms, a time deviation of ± 10 ms applies

### Function

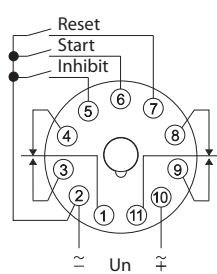
For a description of the functions on page 27.

- Multi-function time relay for universal use in automation, control and regulation or in house installations.
- Three control inputs - START, INHIBIT, RESET.
- Possibility to select the control element for fine time setting:  
PTRA-216K - knob, for easy handling without the need for tools  
PTRA-216T - rotary switch, for the possibility of using a sealable cover.
- Relay mode selection - according to the set function, permanently closed, permanently open, and switching of the second relay according to the supply voltage.
- Universal supply voltage AC/DC 12 – 240 V.
- Multifunction red LED flashes or shines depending on the operating status.

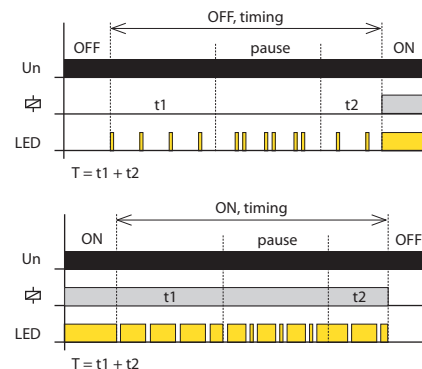
### Description



### Connection



### Indication of operating states



### Relay mode selection

#### FUNC. Settings function mode

The desired function a-j is set with the FUNC rotary switch.

#### OFF. Relay open mode



#### ON. Relay closed mode



#### 2 INST. Second relay instantaneous



The second relay switches according to the supply voltage. The first relay switches according to the function (a-j) set by the trimmer FUNC.



EAN code  
PTRM-216TP/UNI: 8595188176033  
PTRM-216KP/UNI: 8595188176026

### Technical parameters PTRM-216TP PTRM-216KP

#### Power supply

Power pins:	2, 10
Voltage range:	AC/DC 12 – 240V (AC 50/60Hz)
Power input (max.):	2.5 VA/1.5 W
Supply voltage tolerance:	±10 %
Supply indication:	green LED

#### Time circuit

Number of functions:	10
Time ranges:	50 ms - 30 days
Time setting:	rotary switch and potentiometer
Time deviation:*	5 % - mechanical setting
Repeat accuracy:	0.2 % - set value stability
Temperature coefficient:	0.01 %/°C, at = 20 °C (0.01 %/°F, at = 68 °F)

#### Output

Number of contacts	2x changeover/SPDT (AgNi)
Current rating:	16 A/AC1
Breaking capacity:	4000 VA/AC1, 384 W/DC
Switching voltage:	250V AC/24V DC
Max. power dissipation:	2.4 W
Output indication:	multifunction red LED
Mechanical life:	10 000 000 operations
Electrical life (AC1):	50 000 operations

#### Control

Control pins:	5 (2) -6
Impulse length:	min. 25 ms/max. unlimited
Reset time:	max. 150 ms

#### Other information

Operating temperature:	-20 °C to +55 °C (-4 °F to 131 °F)	
Storage temperature:	-30 °C to +70 °C (-22 °F to 158 °F)	
Dielectrical strength:	supply - output 1 (1, 3, 4)	2.5 kV AC
	supply - output 2 (8, 9, 11)	2.5 kV AC
	output 1 - output 2	2.5 kV AC
Operating position:	any	
Mounting:	11 pin octal socket	
Protection degree:	IP40 from front panel	
Overvoltage category:	for supply voltage 12-150V AC/DC	III.
	for supply voltage 150-240V AC/DC	II.
Pollution degree:	2	
Dimensions:	48x48x79mm (1.7x1.7x3.1inch)	48x48x89mm (1.7x1.7x3.5inch)
Weight:	111 g (3.9 oz)	108 g (3.81 oz)
Standards:	EN 61812-1	

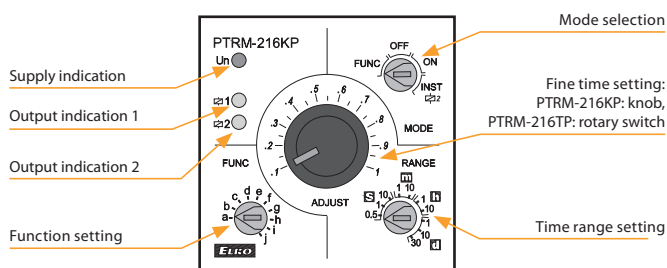
\* for adjustable delay <100 ms, a time deviation of ± 10 ms applies

#### Function

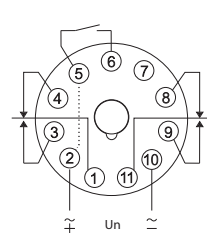
For a description of the functions on page 25.

- Multi-function time relay for universal use in automation, control and regulation or in house installations.
- Possibility to select the control element for fine time setting:  
PTRM-216KP - knob, for easy handling without the need for tools  
PTRM-216TP - rotary switch, for the possibility of using a sealable cover
- All functions initiated by the supply voltage, except for the flasher function, can use the control input to inhibit the delay (pause).
- Relay mode selection - according to the set function, permanently closed, permanently open, and switching of the second relay according to the supply voltage.
- Multifunction red LED flashes or shines depending on the operating status.

#### Description

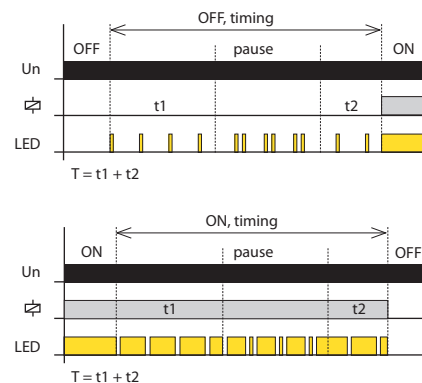


#### Connection



Pins 2 and 5 are internally connected.

#### Indication of operating states



#### Relay mode selection

##### FUNC. Settings function mode

The desired function a-j is set with the FUNC rotary switch.

##### OFF. Relay open mode



##### ON. Relay closed mode



##### 2 INST. Second relay instantaneous



The second relay switches according to the supply voltage. The first relay switches according to the function (a-j) set by the trimmer FUNC.



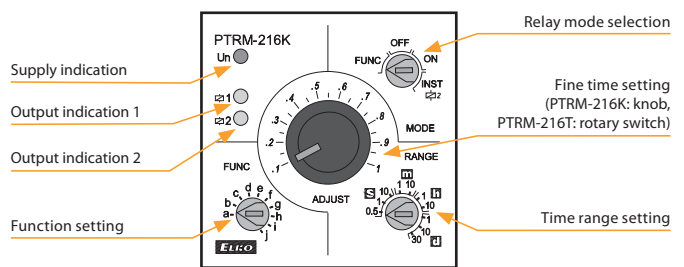
EAN code  
 PTRM-216T/UNI: 8595188175586  
 PTRM-216K/UNI: 8595188175579

Technical parameters	PTRM-216T	PTRM-216K
<b>Power supply</b>		
Power pins:	2, 10	
Voltage range:	AC/DC 12 – 240V (AC 50/60Hz)	
Power input (max.):	2.5 VA/1.5 W	
Supply voltage tolerance:	±10 %	
Supply indication:	green LED	
<b>Time circuit</b>		
Number of functions:	10	
Time ranges:	50 ms - 30 days	
Time setting:	rotary switch and potentiometer	
Time deviation:*	5 % - mechanical setting	
Repeat accuracy:	0.2 % - set value stability	
Temperature coefficient:	0.01 %/°C, at = 20 °C (0.01 %/°F, at = 68 °F)	
<b>Output</b>		
Number of contacts	2x changeover/SPDT (AgNi)	
Current rating:	16 A/AC1	
Breaking capacity:	4000 VA/AC1, 384 W/DC	
Switching voltage:	250V AC/24V DC	
Max. power dissipation:	2.4 W	
Output indication:	multifunction red LED	
Mechanical life:	10 000 000 operations	
Electrical life (AC1):	50 000 operations	
<b>Control</b>		
Control pins:	5 - 6	
Impulse length:	min. 25 ms/max. unlimited	
Reset time:	max. 150 ms	
<b>Other information</b>		
Operating temperature:	-20 °C to +55 °C (-4 °F to 131 °F)	
Storage temperature:	-30 °C to +70 °C (-22 °F to 158 °F)	
Dielectrical strength:		
supply - output 1 (1, 3, 4)	2.5 kV AC	
supply - output 2 (8, 9, 11)	2.5 kV AC	
output 1 - output 2	2.5 kV AC	
Operating position:	any	
Mounting:	11 pin octal socket	
Protection degree:	IP40 from front panel	
Overvoltage category:		
for supply voltage 12-150V AC/DC	III.	
for supply voltage 150-240V AC/DC	II.	
Pollution degree:	2	
Dimensions:	48x48x79mm (1.7x1.7x3.1inch)	48x48x89mm (1.7x1.7x3.5inch)
Weight:	111 g (3.9 oz)	108 g (3.81 oz)
Standards:	EN 61812-1	

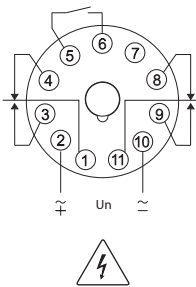
\* for adjustable delay <100 ms, a time deviation of ± 10 ms applies

- Multi-function time relay for universal use in automation, control and regulation or in house installations.
- Potential-free control input (Control Switch Trigger).
- Possibility to select the control element for fine time setting:  
 PTRM-216K - knob, for easy handling without the need for tools  
 PTRM-216T - rotary switch, for the possibility of using a sealable cover.
- All functions initiated by the supply voltage, except for the flasher function, can use the control input to inhibit the delay (pause).
- Relay mode selection - according to the set function, permanently closed, permanently open, and switching of the second relay according to the supply voltage.
- Multifunction red LED flashes or shines depending on the operating status.

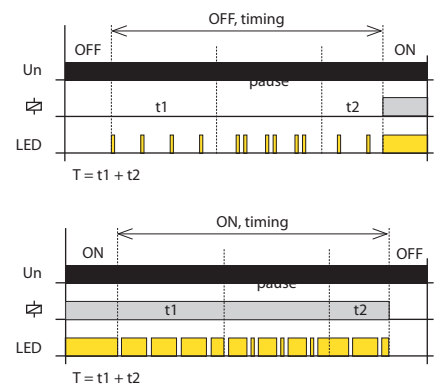
**Description**



**Connection**



**Indication of operating states**



**Relay mode selection**

**FUNC. Settings function mode**

The desired function a-j is set with the FUNC rotary switch.

**OFF. Relay open mode**



**ON. Relay closed mode**



**2 INST. Second relay instantaneous**



The second relay switches according to the supply voltage. The first relay switches according to the function (a-j) set by the trimmer FUNC.

**Function**

For a description of the functions on page 25.